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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO.   CONFIRMATION NO.		
10/669,098	09/24/2003	Manabu Ishikawa	50395-229	50395-229 1843		
7590 12/28/2005			EXAMINER			
	TT, WILL & EMERY	СНІЕМ,	CHIEM, DINH D			
600 13th Street Washington, D	C 20005-3096		ART UNIT	PAPER NUMBER		
			2883			
			DATE MAILED: 12/28/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	No.	Applicant(s)	· <del></del>		
Office Action Summary		10/669,098		ISHIKAWA ET AL.			
		Examiner		Art Unit	· · · · · · · · · · · · · · · · · · ·		
		Erin D. Chie		2883			
Period fo	The MAILING DATE of this communication a or Reply	appears on the c	over sheet with the c	orrespondence add	dress		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by started by the Office later than three months after the may be patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS 1.136(a). In no event, iod will apply and will e atute, cause the applica	COMMUNICATION however, may a reply be time control to the control	I. ely filed the mailing date of this co O (35 U.S.C. § 133).			
Status							
1) 又	Responsive to communication(s) filed on 19	9 September 20	05				
		his action is nor	<del></del>				
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,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
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Dispositi	on of Claims	•					
4)🖂	Claim(s) 1,4,7 and 8 is/are pending in the ap	pplication.					
	4a) Of the above claim(s) is/are withd	drawn from cons	ideration.				
5)	Claim(s) is/are allowed.						
6)🖂	Claim(s) 1.4.7 and 8 is/are rejected.						
7)	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and	d/or election req	uirement.				
Applicati	on Papers						
9)[7]	The specification is objected to by the Exami	iner	•				
9) The specification is objected to by the Examiner.							
.0/	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	•	-, ,	•	` '	'D 4 404(-i)		
441	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11)	ine oath or declaration is objected to by the	Examiner. Note	the attached Office	Action or form PT	O-152.		
Priority u	ınder 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment	• •						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
	e of Dransperson's Patent Drawing Review (P10-948) nation Disclosure Statement(s) (PT0-1449 or PTO/SB/0	08) 5	Notice of Informal Pa		-15 <b>27)</b>		
	No(s)/Mail Date	6	☐ Other: <i>△</i>	/ Jee	2		
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#### **DETAILED ACTION**

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This office action is in response to the amendment filed on September 19, 2005. Claims 1 and 4 are amended and claims 2, 3, 5, and 6 are cancelled, and claims 7 and 8 are newly added. Currently, claims 1, 4, 7, and 8 are pending. The objections made to the Specification and claims 4 and 6 are withdrawn in view of the amendment that overcome the objections.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Sato et al. (US 2002/0126456 A1, hereinafter "Sato"). Sato teaches an optical module comprising an optical subassembly (6) including a semiconductor optical device; a substrate (26) securing the optical subassembly and mounting a circuit for driving the semiconductor optical device, the circuit generating heat; a metal base (2) enclosing the optical subassembly, the base providing an opening for exposing the circuit; a conductive cover (28 and [0063]) (please note: metal is a conductive material); a thermal block (60) made of metal for dissipating the heat generated by the circuit, the thermal block arranged so as to cover the opening of the base and being thermally in contact with the circuit and the cover [0086]; and a thermal sheet

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(62c) made of molded resin [0094] disposed between the thermal block and the circuit (Fig. 8, 9, 12A, and 15A and paragraphs [0082], [0086], [0089], and [0103]).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato in view of Anderson et al. (US 2002/0122636 A1 hereinafter Anderson).

Sato teaches an optical module comprising an optical subassembly (6) including a semiconductor optical device; a substrate (26) securing the optical subassembly and mounting a circuit for driving the semiconductor optical device, the circuit generating heat; a metal base (2) enclosing the optical subassembly, the base providing an opening for exposing the circuit; a conductive cover (28 and [0063]) (please note: metal is a conductive material); a thermal block (60) made of metal for dissipating the heat generated by the circuit, the thermal block arranged so as to cover the opening of the base and being thermally in contact with the circuit and the cover [0086]; and a thermal sheet (62c) made of molded resin [0094] disposed between the thermal block and the circuit (Fig. 8, 9, 12A, and 15A and paragraphs [0082], [0086], [0089], and [0103]). Furthermore, in Fig. 12A, it is clearly visible that insulator sheet (62c) is sandwiched between the thermal block (60) and the cover (28) wherein the thermal block is secured by pressing an outer surface thereof to the inner surface of the opening.

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However, Sato does not teach the opening has an inner surface sloped from the cover to the substrate.

Anderson teaches in Figure 1 (122), see Fig. 2 for a fully assembled module, is a sloping inner surface connecting from the cover to the opening wherein the thermal block, cover with ridges (104), is secured by pressing an outer surface thereof to the inner surface of the opening. The sloping edges are employed for the purpose of aligning the ferrule when inserted into the cavity (see Fig. 1 and 2 and paragraph [0134]).

Since Sato and Anderson are both from the same field of endeavor, the purpose disclosed by Anderson would have been recognized in the pertinent art of Sato.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to apply the same concept to Sato's module by sloping the surface of the housing, for example in Fig. 5, at the end where the optical element assembly (24) is located to connect into another module. The motivation for sloping the surface of the housing near the optical element assembly end (24) is to provide Sato's module with the capability of plugging into another device that only requires the light to couple into the module (20) wherein the current state the module (20) is less versatile because only a fiber with a connector may be inserted into the optical element assembly end (24).

## Response to Arguments

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., thermal block is rigid or not exhibiting a certain degree of flexibility are not recited in the rejected claim(s).

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Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

In response applicant's argument regarding the opening of base 11 is not the same as the opening 111 of the present invention is spurious since Sato's module meets the limitation because the base providing an opening for exposing the circuit. The Examiner interprets the exposing pins as part of the circuit.

In any case, applicant's arguments with respect to claims 1 and 4 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Erin D. Chiem whose telephone number is (571) 272-3102. The

examiner can normally be reached on Monday - Thursday 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Frank G. Font can be reached on (571) 272-2415. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Erin D Chiem Examiner

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Brian Healy Frimary Example Healy